

Title (en)

OVERFLOW MOLTEN METAL TRANSFER PUMP WITH GAS AND FLUX INTRODUCTION

Title (de)

ÜBERLAUFFLÜSSIGMETALLTRANSFERPUMPE MIT GAS UND FLUSSMITTELEINFÜHRUNG

Title (fr)

POMPE DE TRANSFERT DE TROP-PLEIN DE MÉTAL EN FUSION DOTÉE D'UNE INTRODUCTION DE GAZ ET DE FLUX

Publication

EP 2997259 B1 20200708 (EN)

Application

EP 14798072 A 20140514

Priority

- US 201361823103 P 20130514
- US 2014000108 W 20140514

Abstract (en)

[origin: WO2014185971A2] A method of fluxing or degassing a molten metal residing as a bath in a furnace. The bath of molten metal includes a bath surface height and the method provides at least one rotating impeller in the molten metal bath to initiate a flow of the molten metal. The flow in the molten metal results in elevating a portion of the molten metal above the bath surface height where at least one of a fluxing agent and an inert gas is introduced into the elevated portion of the molten metal.

IPC 8 full level

F04B 17/00 (2006.01); **B22D 1/00** (2006.01); **C22B 9/05** (2006.01); **C22B 9/10** (2006.01); **F04D 7/06** (2006.01); **F27D 3/00** (2006.01); **F27D 3/16** (2006.01)

CPC (source: EP US)

B22D 1/005 (2013.01 - EP US); **B22D 1/007** (2013.01 - EP US); **C22B 9/05** (2013.01 - EP US); **C22B 9/103** (2013.01 - EP US); **F04D 7/065** (2013.01 - EP US); **F27D 3/08** (2013.01 - US); **F27D 3/10** (2013.01 - US); **F27D 3/14** (2013.01 - US); **F27D 3/16** (2013.01 - EP US); **F27D 19/00** (2013.01 - US); **F27D 21/0028** (2013.01 - US); **F27D 2003/0054** (2013.01 - EP US); **F27D 2003/0083** (2013.01 - EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2014185971 A2 20141120; **WO 2014185971 A3 20150528**; CA 2912360 A1 20141120; CA 2912360 C 20220308; EP 2997259 A2 20160323; EP 2997259 A4 20170308; EP 2997259 B1 20200708; ES 2821734 T3 20210427; MX 2015015699 A 20160303; PL 2997259 T3 20210125; US 10415884 B2 20190917; US 2016116216 A1 20160428

DOCDB simple family (application)

US 2014000108 W 20140514; CA 2912360 A 20140514; EP 14798072 A 20140514; ES 14798072 T 20140514; MX 2015015699 A 20140514; PL 14798072 T 20140514; US 201414891206 A 20140514